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AEE CHEMISTRY
780-430-0253
07/06/2005 08:19

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: AMEC EARTH AND ENVIRONMENTAL LTD.
4810-93 STREET
EDMONTON AB T6E 5M4

Finalized Date: 23-JUN-2005
Account: AMECED

CERTIFICATE VA05047827

Project:

P.O. No.:

This report is for 4 Rock samples submitted to our lab in Vancouver, BC, Canada on 20-JUN-2005.

The following have access to data associated with this certificate:

BRENDA CHOMIN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter
CRU-31	Fine crushing - 70% <2mm
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
OA-VOL08	Basic Acid Base Accounting	
OA-ELE07	Paste pH	
S-IR08	Total Sulphur (Leco)	LECO
ME-MS61	47 element four acid ICP-MS	

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ATTN: BRENDA CHOMIN
4810-93 STREET
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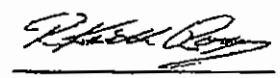
This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	OA-VOL08 FIZZ RAT Unity 1	OA-VOL08 NNP t CaCO3/ 100 1	OA-VOL08 NP t CaCO3/ 100 1	OA-ELE07 pH Unity 0.1	OA-VOL08 MPA t CaCO3/ 100 0.5	OA-VOL08 Ratio (N Unity 0.01	S-IR08 S % 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01
1a		0.96	1	4	5	9.0	0.9	5.33	0.03	0.07	6.23	1.1	210	1.67	0.02	0.69
2a		2.26	1	12	13	8.5	0.9	13.67	0.03	0.22	6.96	1.9	130	1.52	0.07	6.49
3a		1.32	1	4	4	9.0	<0.5	25.60	<0.01	0.03	6.93	1.0	260	0.99	<0.01	0.42
4a		1.16	1	5	5	8.9	<0.5	16.00	0.01	0.04	6.86	0.8	560	1.24	0.05	0.41

Comments: REE's may not be totally soluble in MS61 method.

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Total # Pages: 2 (A - D)
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Sample Description	Method / Analyte / Units / LOR	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01
1a		<0.02	28.80	3.9	56	1.52	11.0	1.26	18.00	0.09	2.2	0.016	1.72	15.8	14.0	0.24
2a		0.10	57.50	49.3	87	1.87	506.0	12.00	25.60	0.24	6.2	0.108	0.43	24.7	18.0	3.14
3a		<0.02	15.45	1.5	35	3.66	20.0	0.70	18.20	0.08	1.1	0.010	4.89	8.6	4.9	0.12
4a		<0.02	35.10	1.8	48	2.22	4.0	1.16	18.05	0.10	2.7	0.030	4.26	17.0	19.8	0.22

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Sample Description	Method / Analyte / Units / LOR	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05
1a		150	0.32	3.08	5.7	30.4	220	12.5	73.4	<0.002	0.04	1.50	1	2.2	77.8	0.58
2a		1545	1.18	1.81	17.6	72.9	1500	2.8	17.7	0.002	0.03	0.97	3	2.0	286.0	1.37
3a		78	0.33	2.41	2.9	4.8	190	24.2	202.0	<0.002	0.01	0.59	1	1.3	83.4	0.43
4a		172	0.24	2.34	6.5	5.1	290	22.3	159.0	<0.002	0.01	0.39	1	2.4	86.0	0.62

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Sample Description	Method Analyte Units LOR	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
1a		<0.05	5.9	0.065	0.33	6.6	7	0.2	7.0	20	81.5
2a		<0.05	2.5	1.805	0.05	0.7	448	0.3	39.1	194	215.0
3a		<0.05	2.8	0.047	0.85	1.7	7	0.1	4.6	6	32.4
4a		<0.05	12.6	0.080	0.74	8.8	6	0.2	7.9	22	76.6

Comments: REE's may not be totally soluble in MS61 method.